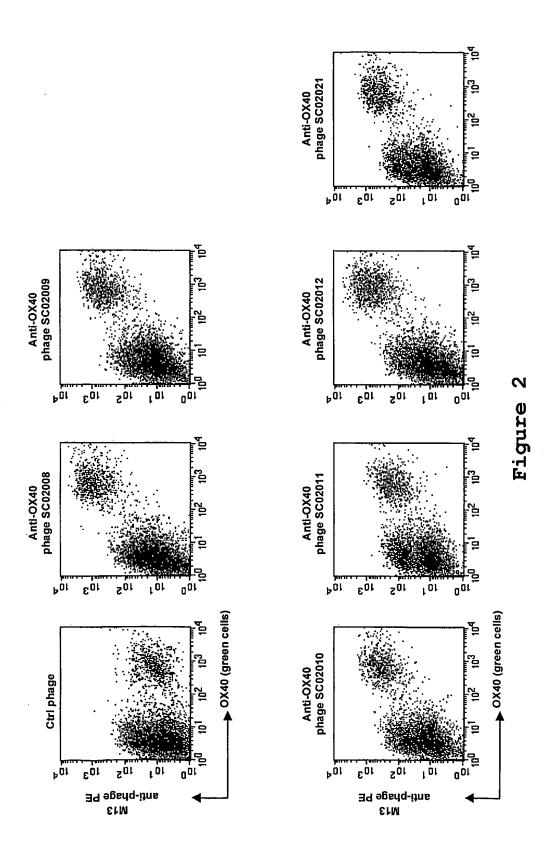
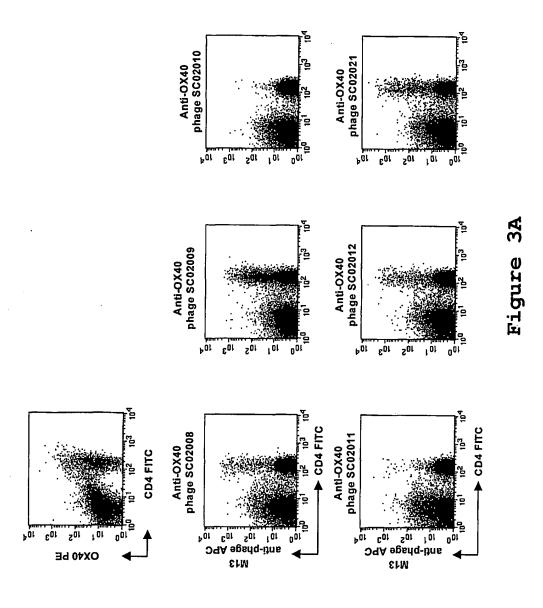
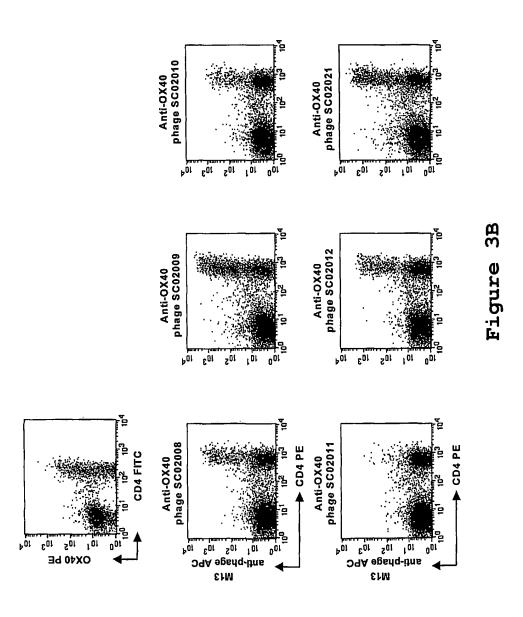
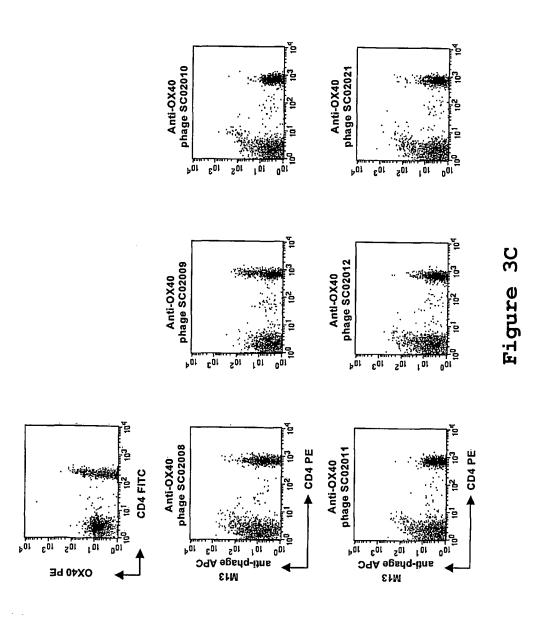


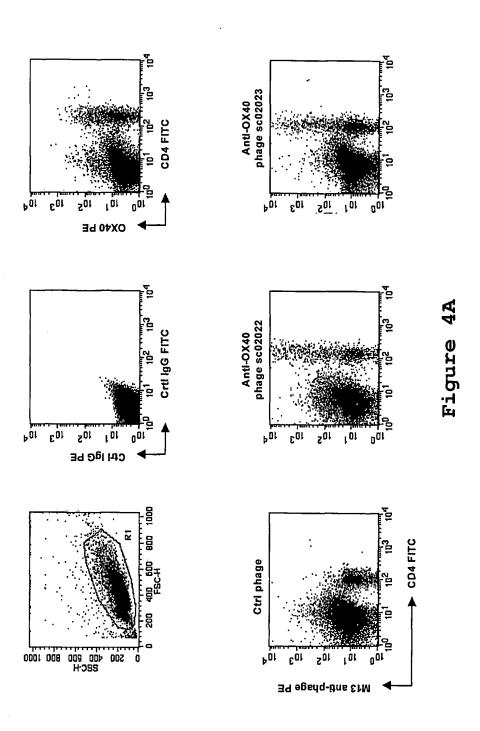
FIGURE 1



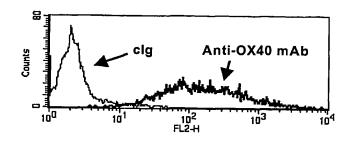


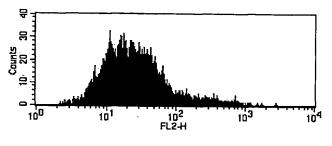




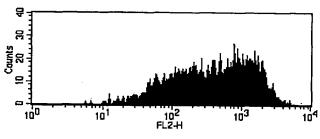


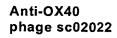
Perc6 OX40 transfectant

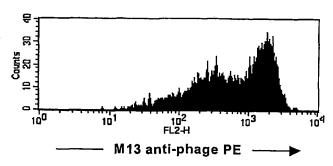




Ctrl phage







Anti-OX40 phage sc02023

Figure 4B

	NcoI
143	M A E V Q L V E S G G G L V Q P G G S L R CCATGGCTGAGGTGCAGCTGGAGGTCCGAGGGTGCAGCCTGGAGGGTCCCTGAG
214	LSCAASGFTFSNYTMNWVRQAPG ACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAACTACACGATGAACTGGGTCCGCCAGGCGCCCGGGA
285	K G L E W V S A I S G S G G S T Y Y A D S V K G AGGGGCTGGAGTGGTCTCAGCTATTAGTGGTAGTGGTAGCACATACTACGCAGACTCCGTGAAGGGC
356	R F T I S R D N S K N T L Y L Q M N S L R A E C
427	T A V Y Y C A K \overline{D} R Y S \overline{Q} V H Y A \overline{L} D Y W G \overline{Q} CACGGCCGTGTATTACTGTGCCAAAGACCGCTACTCCCAGGTGCACTACGCGTTGGATTACTGGGGCCAGG
498	G T L V T V L E G T G G S G T G S G T G T S E GCACCCTGGTGACCGTGCTCGAGGGTACCGGAGGTTCCGGCGGAACCGGGTCTGGGACTGGTACGAGCGAG
569	L D I Q M T Q S P D S L P V T P G E P A S I S C CTCGACATCCAGATGACGCAGTCTCCAGACTCACCCCTGGAGAGCCGGCCTCCATCTCCTC
640	R S S Q S L L H S N G Y N Y L D W Y L Q K A G CAGGTCTAGTCAGAGCCTCCTGCATAGTAATGGATACAACTATTTGGATTGGTACCTGCAGAAGGCAGGG
711	Q S P Q L L I Y L G S N R A S G V P D R F S G S AGTCTCCACAGCTCCTGATCTATTTGGGTTCTAATCGGGCCTCCGGGGTCCCTGACAGGTTCAGTGGCAG
782	G S G T D F T L K I S R V E A E D V G V Y Y C (GGÀTCAGGCACAGATTTTACACTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGGGTTTATTACTGCCA
	NotI
	Q Y Y N H P T T F G Q G T K L E I K R A A
853	GCAGTACTACAACCACCCGACGACCTTCGGCCAGGGCACCAAACTGGAAATCAAACGCGCGGCCGC

	NCOT
143	M A E V Q L V E S G G L CCATGGCTGAGGTGCAGCTGGTGGAGGCTTG
214	V Q P G G S L R L S C A A S G F T F S G Y S M N GTCCAGCCTGGGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTCAGCGGCTACTCTATGAA
285	W V R Q A P G K G L E W V G R T R N K A N S Y CTGGGTCCGCCAGGCCCCGGGAAGGGGCTGGAGTGGCTTGGCCGTACTAGAAACAAAGCTAACAGTTACA
356	T T E Y A A S V K G R F T I S R D D S K N S L Y CCACAGAATACGCCGCGTCTGTGAAAGGCAGATTCACCATCTCAAGAGATGATTCAAAGAACTCACTGTAT
427	L Q M N S L R A E D T A V Y Y C A K <u>D R Y V N T</u> CTGCAAATGAACAGTCTGAGAGCCGAGGACACAGCCGTGTATTACTGTGCCAAAGACCGCTACGTCAACAC
498	S N A F D Y W G Q G T L V T V L E G T G G S G GTCGAACGCGTTCGATTACTGGGGCCAGGGCACCCTGGTGACCGTGCTCGAGGGTACCGGAGGTTCCGGCG
569	G T G S G T G T S E L D I Q M T Q S P D S L P V GAACCGGGTCTGGGACTGGTACGAGCTCGAGCTCCAGATGACACAGTCTCCAGACTCACTGCCCGTC
640	T P G E P A S I S C R S S Q S L L H S N G Y N Y ACCCCTGGAGAGCCGCCTCCATCTCCTGCAGATCTAGTCAGAGCCTCCTGCATAGTAATGGATACAACTA
, 711	L D W Y L Q K P G Q S P Q L L I Y L G S N R A TTTGGATTGGTACCTGCAGAAGCCAGGGCAGTCTCCACAGCTCCTGATCTATTGGGTTCTAATCGGGCCT
782	S G V P D R F S G S G S G T D F T L K I S R V E CCGGGGTCCCTGACAGGTTCAGTGGCAGTGGATCAGGCACAGATTTTACACTGAAAATCAGCAGAGTGGAG
853	A H H V G V Y Y C Q Q Y P L G P P T F G Q G T K GCTCACCATGTTGGGGTTTATTACTGCCAGCAGTACCCGCTGGGCCCACCTTCGGCCAGGGCACCAA
	NotI
924	L E I K R A A ACTGGAAATCAAACGCGGGCCGC

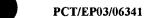
72	M A E V Q L V CCATGGCTGAGGTGCAGCTGGTGG
143	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
214	S G Y P M N W V R Q A P G K G L E W V A V I S Y AGCGGCTACCCTATGAACTGGGTCGCCAGGCGCCCGGGAAGGGGCTGGAGTGGGTGG
285	D G S N K Y Y A D S V K G R F T I S R D N S K TGATGGAAGTAATAAATACTACGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACAATTCCAAGA
356	N T L Y L Q M N S L R A E D T A V Y Y C A R \underline{D} M ACACGCTGTATCTGCAAATGAACAGCCTGAGAGGCTGAGGACACAGCCGTGTATTACTGTGCAAGAGACATG
4 27	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
498	G G T G S G T G T S E L T Q S P S S L S A S V CGGCGGAACCGGGTCTGGGACTGGTACGAGCGAGCTCACCCAGTCTCCATCCTCCTGTCTGCATCTGTAG
569	G D R V T I T C R A S Q S I S S Y L N W Y Q Q K GAGACAGAGTCACCATCACTTGCCGGGCAAGTCAGAGCATTAGCAGCTACTTAAATTGGTATCAGCAGAAA
640	P G K A P K L L I Y A A S S L Q S G V P S R F S CCAGGGAAAGCCCCTAAGCTCCTGATCTATGCTGCATCCAGTTTGCAAAGTGGGGTCCCATCAAGGTTCAG
711	G S G S G T D F T L T I S S L Q P E D F A T Y TGGCAGTGGATCTGGGACAGATTTCACTCTCACCATCAGCAGTCTGCAACCTGAAGATTTTGCAACTTACT
	NotI
782	Y C Q Q S Y S T P P T F G Q G T K V E I K R A A ACTGTCAACAGAGTTACAGTACCCCTCCAACGTTCGGCCAAGGGACCAAGGTGGAGATCAAACGTGCGGCC
853	GC

	NCO1
143	M A E V Q L V E S G G V V Q P G R CCATGGCTGAGGTGCAGCTGGTGGAGTCTGGGGGAGGCGTGGTCCAGCCTGGGAGGT
214	S L R L S C A A S G F T F S D Y T M N W V R Q A CCCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTCAGCGACTACACGATGAACTGGGTCCGCCAGGCG
285	P G K G L E W V S S I S G G S T Y Y A D S R K G CCCGGGAAGGGCTGGATGGTCTCATCCATTAGTGGTGGTAGCACATACTACGCAGACTCCAGGAAGGG
356	R F T I S R D N S K N T L Y L Q M N N L R A E CAGATTCACCATCTCCAGAGACAATTCCAAGAACACGCTGTATCTTCAAATGAACAACCTGAGAGCTGAGG
427	D T A V Y Y C A R <u>D R Y F R Q Q N A F D Y W G Q</u> ACACGGCCGTGTATTACTGTGCAAGAGACCGCTACTTCAGGCAGCAGCAGCAGCGCTTCGATTACTGGGGCCAG
498	G T L V T V L E G T G G S G T G S G T G T S E GGCACCCTGGTGACCGTGCTACGAGGGTACCGGAGGTTCCGGCGGAACCGGGTCTGGGACTGGTACGAGCGA
569	L D I Q M T Q S P V T L P V T P G E P A S I S GCTCGACATCCAGATGACTCCAGTCTCCAGTCACCCTGCCCGTCACCCCTGGAGAGCCGGCCTCCATCTCCT
640	C R S S Q S L L H S N G Y N Y L D W Y L Q K P G GCAGGTCTAGTCAGAGCCTCCTGCATAGTCATAGTGATACACTATTTGGATTGGTACCTGCAGAAGCCAGGG
711	Q S P Q L L I Y L G S N R A S G V P D R F S G S CAGTCTCCACAGCTCCTGATCTTTGGGTTCTAATCGGGCCTCCGGGGTCCCTGACAGGTTCAGTGGCAG
782	G S G T D F T L K I S R V E A E D V G V Y Y C TGGATCAGGCACAGATTTTACACTGAAAATCAGCAGAGTGGAGGCTGAGGATGTTGGGGTTTATTACTGCC
	NotI
853	Q Q Y L T A P P T F G Q G T K L E I K R A A AGCAGTACCTCACGGCCCCCCCCCCCCCCCCCCCCCCC



	NcoI
	~~~~
72	M A E V Q L V E CCATGGCTGAAGTGCAGCTGGTGGA
	S G G G L V K P G G S L R L S C A A S G F T F S AAGCGGCGGCTGGTGAAGCCGGGTGGCAGCCTGAGCTGCGCCTGAGCGCTTCACCTTTA
214	N D S M N W M R Q A P G K G L E W V A N I N Q GCAACGACTCGATGAACTGGATGCGCCAGGCCCCGGGCAAAGGCCTCGAATGGGTGGCCAATATCAATCA
285	D G N E K Y Y A D S V K G R F T I S R D N S K N GATGGCAACGAAAAATATTACGCCGACTCTGTCAAAGGCCGCTTCACCATCAGTCGCGATAACTCCAAAAA
356	S L Y L Q M N S L R D E D T A L Y Y C A R $\underline{A}$ R CTCCCTGTACCTGCAGATGAACAGCCTGCGCGACGAAGATACCGCCCTGTACTACTGCGCACGCCCCGCG
427	$\frac{A  A  G  T  I  F  D  Y}{CCGCCGGCACCATCTTCGATTACTGGGGCCAGGGCACCCTGGTGACCGTGCTCGAGGGTACCGGAGGTTCC}$
498	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
569	A S V G D R V T I T C R A S Q N V S N Y L T W CGCCTCCGTGGGCGACCACCATCACCTGCCGCCAGCCAGAACGTCAGCAACTACCTGACCTGGT
640	Y Q Q K P G K A G K L L I Y A A S S L Q S G V P ACCAGCAGAAACCGGGCAAGCTGGCAAACTGCTGATTTACGCCGCCAGCAGCCTCCAAAGCGGCGTGCCG
711	S R F S G S G S G T D F T L T I S S L Q P E D F TCTAGATTCAGTGGCTCCGGAACCGATTTTACCCTGACCATCAGCAGCCTGCAGCCGGAAGATTT
782	A T Y Y C Q Q S Y F N P A T F G Q G T K L E I CGCTACCTACTATTGTCAGCAGTCCTACTTCAACCCGGCGACCTTCGGCCAGGGCACCAAACTGGAAATCA
	Noti
853	K R A A AACGCGGGCCGC

Figure 9



	Ncoi
143	M A E V Q L V E S G G L CCATGGCTGAGGTGCAGCTGGGGGAGGCTTG
214	V Q P R G S L R L S C A A S G F T F S S Y A M N GTACAGCCTAGGGGTCCCTGAGACTCTCCTGTGCAGCCTCTGGATTCACCTTTAGCAGCTACGCGATGAA
285	W V R Q A P G K G L E W V A V I S Y D G S N K CTGGGTCCGCCAGGCGCCCGGGAAGGGGCTGGAGTGGCAGTTATATCATATGATGGAAGCAATAAAT
356	Y Y A D S V K G R F T I S R D N S K N T L Y L Q ACTACGCAGACTCCGTGAAGGGCCGATTCACCATCTCCAGAGACACTCCAAGAACACGCTGTATCTGCAA
427	M N S L R A E D T A V Y Y C A K $\underline{\text{D}}$ R Y $\underline{\text{I}}$ T L P N ATGAACAGCCTGAGAGACAGCCGTGAGACAGCCGTTATTACTGTGCCAAAGACCGCTACATCACGTTGCCGAA
498	$\frac{\texttt{A}  \texttt{L}  \texttt{D}  \texttt{Y}}{\texttt{CGCGTTGGATTACTGGGGCCAGGGCACCCTGGTGACCGTGCTCGAGGGTACCGGAGGTTCCGGCGGAACCG}} \\ \text{W}  \texttt{G}  \texttt{Q}  \texttt{G}  \texttt{T}  \texttt{L}  \texttt{V}  \texttt{T}  \texttt{V}  \texttt{L}  \texttt{E}  \texttt{G}  \texttt{T}  \texttt{G}  \texttt{G}  \texttt{S}  \texttt{G}  \texttt{T}  \texttt{T} \\ \textbf{CGCGTTGGATTACTGGGGCCAGGGCCACCCTGGTGACCGTGCTCGAGGGTACCGGAGGTTCCGGCGGAACCG} \\ \\$
569	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
640	G E P A S I S C R S S Q S L L H S N G Y N Y L D GGAGAGCCGGCCTCCATCTCCTGCAGGTCTAGTCAGAGCCTCCTGCATAGTAATGGATACAACTATTTGGA
711	W Y L Q K P G Q S P Q L L I Y L G S N R A S G TTGGTACCTGCAGAGCCAGGGCAGTCTCCACAGCTCCTGATCTATTTGGGTTCTAATCGGGCCTCCGGGG
782	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
853	D V G V Y Y C Q Q Y K S N P P T F G Q G T K V E GATGTTGGGGTTATTACTGCCAGCAGTACAAGTCGAACCCGCCCACCTTCGGCCAGGGCACCAAAGTGGA
	NotI
024	I K R A A

	NCOI
72	M A E V Q L V E S G G G CCATGGCCGAGGTGCAGCTGGTGGAGTCTGGGGGAGGC
143	L V H P G G S L R L S C A G S G F T F S S Y A M TTGGTACATCCTGGGGGGTCCCTGAGACTCTCCTGTGCAGGCTCTGGATTCACCTTCAGTAGCTATGCTAT
214	H W V R Q A P G K G L E W V S A I G T G G T GCACTGGGTTCGCCAGGCTCCAGGAAAAGGTCTGGAGTGGGTATCAGCTATTGGTACCGGTGGTGGCACAT
285	Y Y A D S V Q G R F T I S R D N A K N S L Y L Q ACTATGCAGACTCCGTGCAGGGCCGATTCACCATCTCCAGAGACAATGCCAAGAACTCCTTGTATCTTCAA
356	M N S L R A E D T A V Y Y C A R <u>Y D E P L T I Y</u> ATGAACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCAAGATACGACGAGCCGCTGACGATTTA
427	W F D S W G Q G T L V T V S S G G G G S G G CTGGTTTGACTCCTGGGGCCAAGGTACCCTGGTCACCGTCTCGAGTGGTGGAGGCGGTTCAGGCGGAGGTG
498	G S G G G S E I E L T Q S P A T L S L S P G E GCTCTGGCGGTGGCGATCGGAAATTGAGCTCACACAGTCTCCAGCCACCCTGTCTTTGTCTCCAGGGGAA
569	R A T L S C R A S Q S V S S Y L A W Y Q Q K P G AGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTTAGCAGCTACTTAGCCTGGTACCAACAGAAACCTGG
640	Q A P R L L I Y D A S N R A T G I P A R F S G CCAGGCTCCCAGGCTCATCTATGATGCATCCAACAGGGCCACTGGCATCCAGCCAG
711	S G S G T D F T L T I S S L E P E D F A V Y Y C GTGGGTCTGGGACAGACTTCACCATCAGCATCAGCAGCCTAGAGCCTGAAGATTTTGCAGTTTATTACTGT
	NotI
782	Q Q R S N W P P A F G G G T K V E I K R A A CAGCAGCGTAGCAACTGGCCTCCGGCTTTCGGCGGAGGGACCAAGGTGGAGATCAAACTGCGCCCCC

Figure 11

	NcoI
72	M A E V Q L V E CCATGGCCGAGGTGCAGCTGGTGGAG
143	S G G G L V H P G G S L R L S C A G S G F T F S TCTGGGGGAGGCTTGGTACATCCTGGGGGGTCCCTGAGACTCTCCTGTGCAGGCTCTGGATTCACCTTCAG
214	S Y A M H W V R Q A P G K G L E W V S A I G T TAGCTATGCTATGCACTGGGTTCGCCAGGCTCCAGGAAAAGGTCTGGAGTGGGTATCAGCTATTGGTACTG
285	G G G T Y Y A D S V M G R F T I S R D N S K N T GTGGTGGCACATACTATGCAGACTCCGTGATGGGCCGGTTCACCATCTCCAGAGACAATTCCAAGAACACG
356	L Y L Q M N S L R A E D T A V Y Y C A R $\underline{Y}$ D N V CTGTATCTGCAAATGAACAGCCTGAGAGCCGAGGACACGGCCGTGTATTACTGTGCAAGATACGACAATGT
427	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
498	S G G G G G G G S E I E L T Q S P A T L S L CAGGCGGAGGTGGCTGTGGGGGGTGGGGAAATTGAGCTCACACAGTCTCCAGCCACCCTGTCTTTG
569	S P G E R A T L S C R A S Q S V S S Y L A W Y Q TCTCCAGGGGAAAGAGCCACCCTCTCCTGCAGGGCCAGTCAGAGTGTTAGCAGCTACTTAGCCTGGTACCA
640	Q K P G Q A P R L L I Y D A S N R A T G I P A ACAGAAACCTGGCCAGGCTCCCAGGCTCCTCATCTATGATGCATCCAACAGGGCCACTGGCATCCCAGCCA
711	R F S G S G S G T D F T L T I S S L E P E D F A GGTTCAGTGGCAGTGGGTCTGGGACAGACTTCACCTCTCACCATCAGCAGCCTGAGGCCTGAAGATTTTGCA
782	V Y Y C Q Q R S N W P P A F G G G T K V E I K R GTTTATTACTGTCAGCGGTAGCAACTGGCCTCCGGCTTTCGGCGGAGGGACCAAGGTGGAGATCAAACG
	Noti
853	À A TGGGGCGG

Figure 12

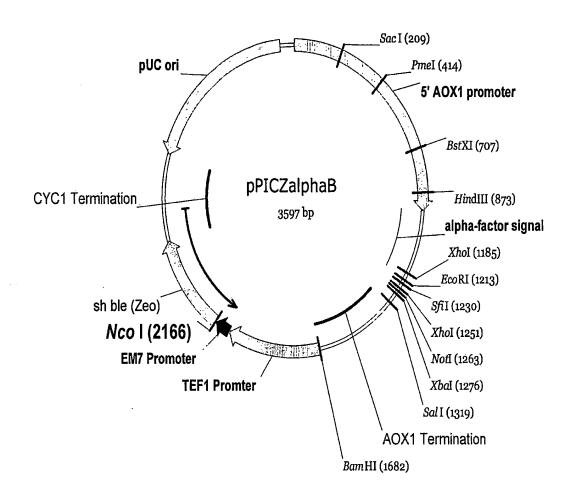
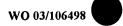


Figure 13A



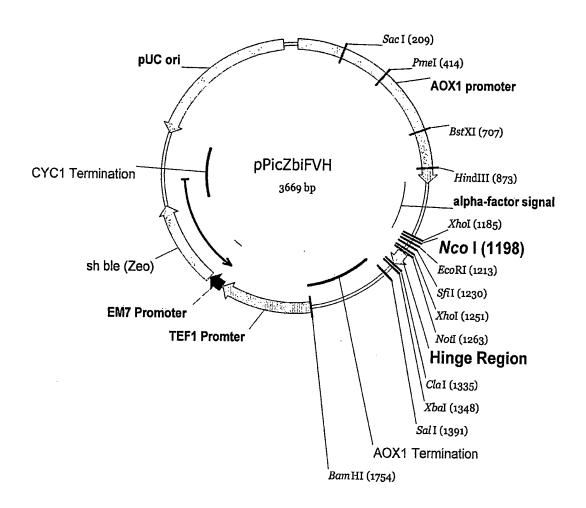
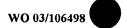
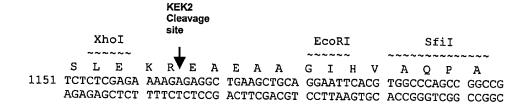


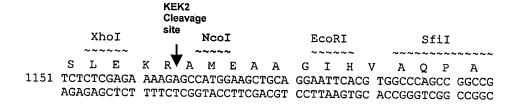
Figure 13B



#### 5' Cloning site of pPicZ $\alpha$ B

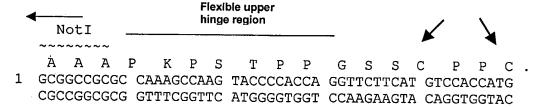


#### 5' Cloning site of pPicZFVH



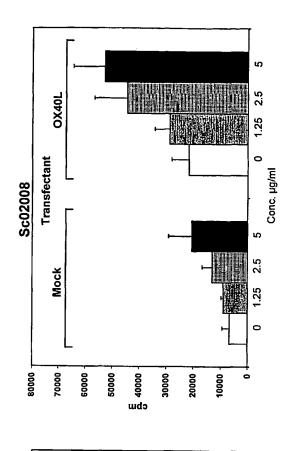
synthetic hinge fragment

Cysteine residues available for disulphide bonding



	Short linker						ClaI						XbaI				
		**************************************						~~~~~						~~~~~			
	•	P	G	S	G	G	Α	Ρ	I	D	S	G	F	L			
51	$\mathbf{T}^{\prime}$	CCA	.GGC	TCT	GGC	GGT	GCG	С	CAATC	GAT	AG	CGGC	TTI	'CTA	GA		
	A	GGT	'CCG	AGA	CCG	CCA	CGC	G	GTTAG	CTA	TC	GCCG	AAA	GAT	CT		

Figure 13C



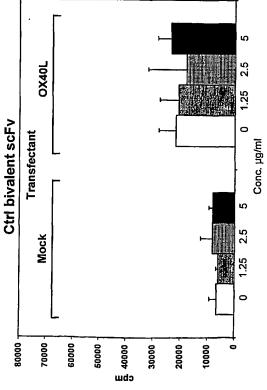


Figure 14A

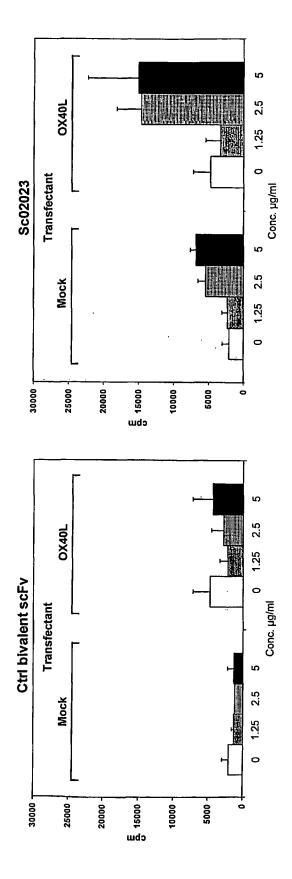


Figure 14B

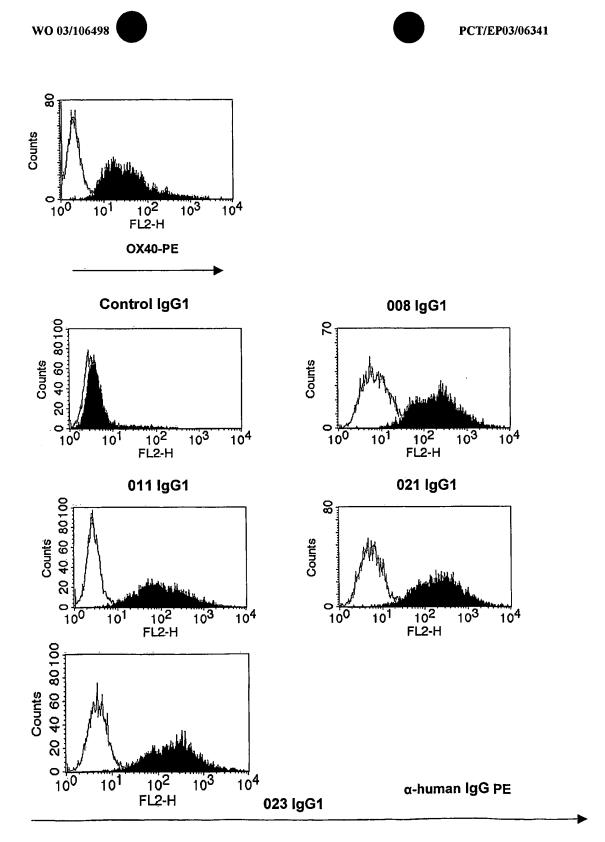


Figure 15